

**AMENDMENT / RESPONSE TO RESTRICTION AND ELECTION REQUIREMENT**

Serial Number: 10/599,348

Filing Date: September 26, 2006

Title: On-Line Making of Powder-Free Rubber Gloves

Docket: ANS0019-00US

**IN THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Original) A powder-free elastomeric article, the article comprising:
  - an elastomeric material having a first surface and a second surface;
  - the first surface of the elastomeric material coated with a powder-free coagulant coating;
  - the powder-free coagulant composition comprising:
    - micronized high-density polyethylene;
    - a micro-emulsion of amino silicone;
    - a dimethicone emulsion;
    - an ethoxylated acetylenic diol surfactant; and
    - a cellulose thickener; and
  - the second surface of the elastomeric material coated with a polymer coating.
2. (Original) The article of claim 1 wherein said article is a glove.
3. (Original) The article of claim 2 wherein the elastomeric material is selected from the group consisting of polychloroprene, natural rubber, synthetic polyisoprene, carboxylated acrylonitrile butadiene and polyurethane.
4. (Original) The article of claim 3 wherein the elastomeric material is compounded with standard curatives.
5. (Original) The article of claim 4 wherein the second surface is halogenated.
6. (Withdrawn) An antiblocking coagulant composition for use in making a powder-free elastomeric article, the coagulant comprising:
  - micronized high-density polyethylene;
  - a micro-emulsion of amino silicone;
  - a dimethicone emulsion;
  - calcium salts;
  - an ethoxylated acetylenic diol surfactant; and

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a cellulose thickener.

7. (Withdrawn) The antiblocking coagulant composition of claim 6 wherein the micronized high density polyethylene has an average melting point of between about 100 and about 130 degrees centigrade and an average particle size of between about 2 and about 12 microns.

8. (Withdrawn) The antiblocking coagulant composition of claim 6 wherein the micro-emulsion of amino silicone includes mixed particles ranging in size from about 1 to about 100 microns.

9. (Withdrawn) The antiblocking coagulant composition of claim 6 wherein the dimethicone is emulsified from a polydimethyl siloxane fluid source with a viscosity ranging from about 10,000 to about 100,000 centistokes.

10. (Withdrawn) The antiblocking coagulant composition of claim 6 further comprising cyclomethicone.

11. (Withdrawn) The antiblocking coagulant composition of claim 10 wherein the dimethicone in combination with the cyclomethicone is emulsified from a polydimethyl siloxane fluid source with a viscosity ranging from about 10,000 to about 100,000 centistokes.

12. (Withdrawn) The antiblocking coagulant composition of claim 6 further comprising a total solids content of the following:

between about 10% and about 30% calcium salts;

between about 0.1% and about 3% micronized HDPE;

between about 0.1% and about 3% micro-emulsion of amino silicone;

between about 0% and about 1% of dimethicone emulsion;

between about 0% and about 0.5% cellulose thickener; and

between about 0.1% and about 0.5% non-ionic acetylenic diol surfactant

13. (Withdrawn) A method for making powder-free articles comprising the steps of: forming a first layer of said article by dipping a former into a bath of the antiblocking coagulant of claim 6;

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forming a second layer over the first layer by dipping the former into a modified elastomeric material;

gelling the second layer;

leaching the gelled layer to remove soluble non-rubber or non-latex constituents;

priming the second layer with a solution having a low concentration of salts;

forming a third layer over the second layer by dipping the former into a polymer coating;

drying the third layer;

subjecting the formed layers to heat of between about 120 and about 160 degrees centigrade; and

post-leaching the cured formed layers.

14. (Withdrawn) The method of claim 13 wherein the former is dipped into the antiblocking coagulant at a temperature of between about 20 and about 40 degrees centigrade.

15. (Withdrawn) A powder-free elastomeric article made by the process of claim 13.

16. (Withdrawn) The article of claim 15 wherein said article is a glove.

17. (New) The article of claim 1, wherein the first surface forms an outside surface of the article and the second layer forms an inside surface of the article.

18. (New) The article of claim 17 comprising a glove, wherein the outside surface of the glove is in direct contact with an inside surface of a double donned glove enabling easy double donning.

19. (New) The article of claim 17 comprising a glove, wherein the inside surface of the glove is in direct contact with skin when donned.

20. (New) The article of claim 17 wherein the outside surface of the glove comprises a polychloroprene latex has a metal over rubber coefficient of friction in the range from about 0.58 to about 1.21.

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21. (New) The article of claim 17 wherein the outside surface of the glove comprises a polychloroprene latex has a rubber over rubber coefficient of friction in the range from about 0.56 to about 0.81.

22. (New) The article of claim 17 wherein the outside surface of the glove comprises a natural rubber latex has a metal over rubber coefficient of friction measuring about 1.26.

23. (New) The article of claim 17 wherein the outside surface of the glove comprises a natural rubber latex has a metal over rubber coefficient of friction measuring about 0.68.

24. (New) The article of claim 1 wherein the micro-emulsion of amino silicone includes mixed particles ranging in size from about 1 to about 100 microns.

25. (New) The article of claim 1 wherein that the coagulant composition comprises a total solids content of the following:

between about 10% and about 30% calcium salts;  
between about 0.1% and about 3% micronized HDPE;  
up to about 1% of dimethicone emulsion;  
between about 0.1% and about 3% micro-emulsion of amino silicone; and  
between about 0.1% and about 0.5% non-ionic acetylenic diol surfactant.

26. (New) The article of claim 1, wherein the dimethicone emulsion comprises dimethicone and cyclomethicone.

27. (New) The article of claim 26, wherein the dimethicone in combination with a cyclomethicone is emulsified from a polydimethylsiloxane fluid source with a viscosity ranging from about 10,000 to about 100,000 centistokes.

28. (New) The article of claim 26, wherein the dimethicone and the cyclomethicone is obtained from a polydimethylsiloxane fluid source with a viscosity of about 100,000 centistokes.

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29. (New) The article of claim 1, wherein the polymer coating comprises a polyurethane-based coating or an acrylic coating.

30. (New) The article of claim 1, wherein the article has an extractable powder level of less than 2 mg and has powder-free attributes.

31. (New) A powder-free elastomeric glove comprising:

an elastomeric material having a first surface and a second surface;

the first surface of the elastomeric material forming an outside surface of the glove and being coated with a powder-free coagulant coating;

the powder-free coagulant composition comprising:

micronized high-density polyethylene;

a micro-emulsion of amino silicone;

a dimethicone emulsion;

an ethoxylated acetylenic diol surfactant; and

the second surface of the elastomeric material forming an inside surface of the glove and being coated with a polymer coating comprising a polyurethane-based coating or an acrylic coating;

wherein the glove has an extractable powder level of less than 2 mg and has powder-free attributes.